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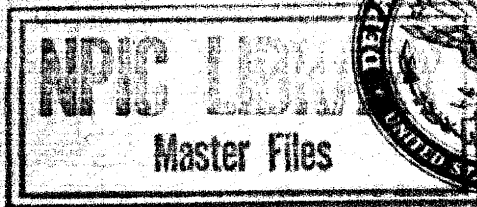
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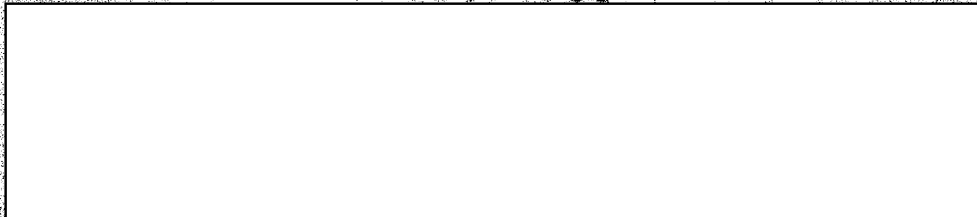
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**SPECIAL REPORT**

**THE UNITED ARAB REPUBLIC (EGYPT)  
SAM PROGRAM (U)**

**AUGUST 1965**



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SPECIAL REPORT

THE UNITED ARAB REPUBLIC (EGYPT) SAM PROGRAM



SAO/AP-1-251-3-4-65-INT

August 1965

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Prepared by

Defense Intelligence Agency

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THE UNITED ARAB REPUBLIC (EGYPT) SAM PROGRAM

FOREWORD

The following Special Report summarizes all available intelligence data on the expanding Egyptian surface-to-air missile project. It deals with the construction of SAM sites and support facilities, missiles, acquisition radars, operating crews, training, current capabilities, and probable future trends. The annexes contain photographs and photo interpretation of the confirmed SAM facilities.

Prepared originally as a working reference for analysts of the Defense Intelligence Agency Production Center, this report is being given wider dissemination as a matter of intelligence interest to operating staffs and forces.

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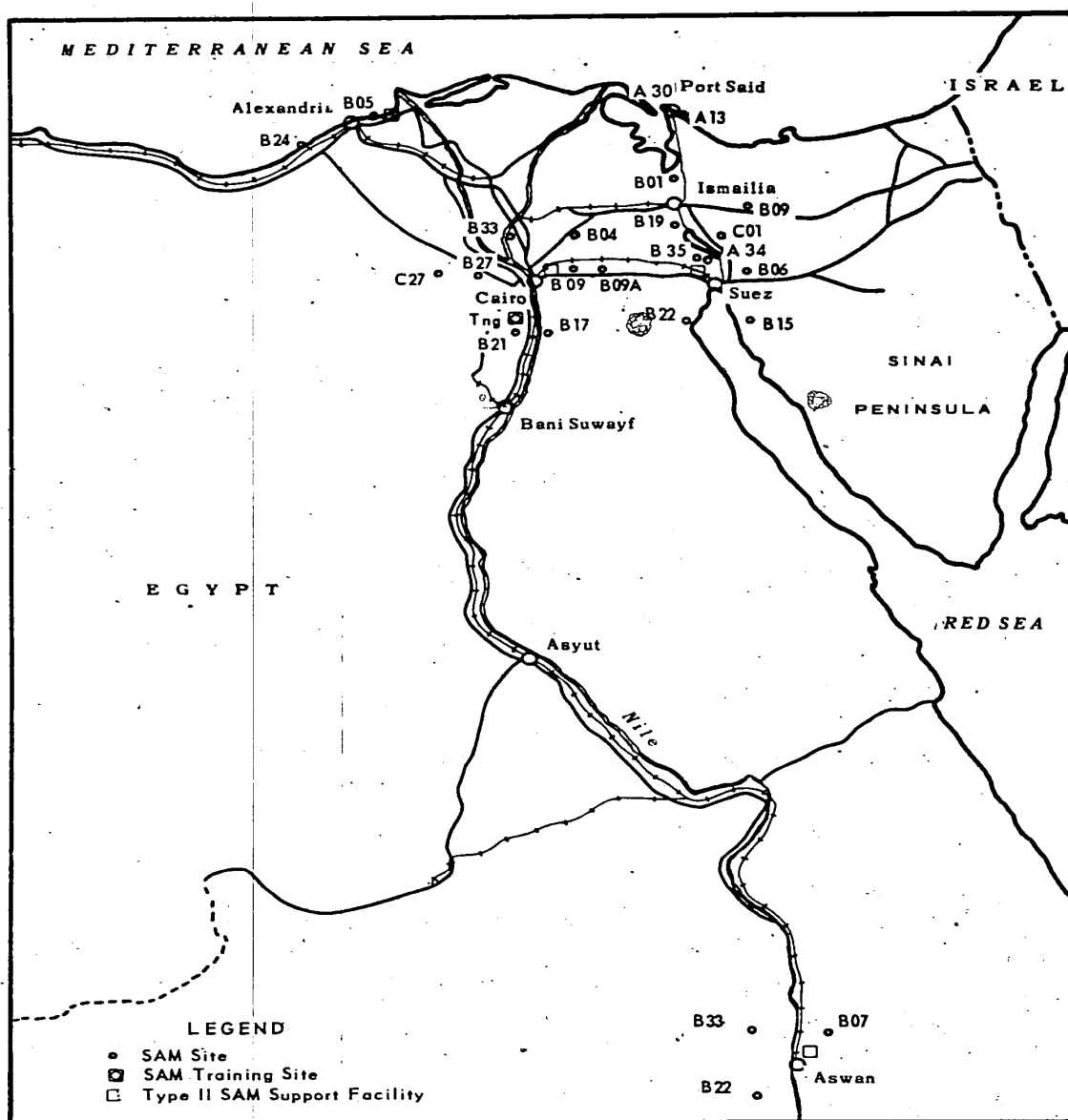
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I. INTRODUCTION

It is not certain when Egypt first contracted with the USSR for surface-to-air missiles. Presumably the Soviet military mission that visited Cairo during April 1961 surveyed Egyptian air defense requirements, and the missile aid agreement was negotiated subsequently -- possibly in June 1961. Undoubtedly Nasir desired the SA-2 weapon primarily [REDACTED]

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II. DISCUSSION

A. Construction of SAM facilities

Begun during the second or third quarter of 1962, construction of SAM sites in Egypt was rather sporadic during 1963 and the first half of 1964, but has since been accelerated, and an apparent effort is now being made to complete the SAM deployment as soon as possible.

There are 22 known (confirmed) six-point launch sites in varying stages of construction: 17 are fixed installations (concrete revetted, with a paved peripheral and interconnecting road system) and 5 are temporary sites (packed sand or earth revetments and an unpaved road network, if any). Base construction has been completed at a number of sites, but they still lack radars and other equipment. There are three distinct site configurations in Egypt: the "daisy link," the most common type, such as the site at Inchas in the Cairo area; the "fan" type, such as the Alexandria sites; and one "grid" type, located 15 NM east of Cairo (see Annex A).

The sites are grouped for defense of the following areas: Alexandria (Al Iskandariyah), Cairo (Al Qahirah), Port Said (Bur Said), Ismailia (Al Ismailiyah), Suez (As Suways), and Aswan. The sites are as-

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signed standard letter and number designations according to their location in the defended area. The letter indicates the distance of the site from the center of the defended area: "A" sites are 0-10 NM from the area; "B" sites are 10-20 NM from the area; "C" sites are 20-30 NM from the area. The 2-digit number indicates the azimuthal sector in which the site lies, based on dividing the area in 36 10-degree sectors. The third number indicates the type of weapon for which the site is intended; "2" is the coding for the SA-2 missile.

The Alexandria area has two sites: B05-2 to the NE at Abu Qir, and B24-2, located 12 NM SW. Both are fixed installations, fan configuration, with base construction completed; both probably have guidance equipment in place.

Six fixed sites surround Cairo: B04-2 at Inchas to the NNE, B09-2, the grid-type to the E at Bastat An-Nasuri, B17-2 to the SSE, 4 NM S of Helwan airfield, B21-2 to the SSW, 1.5 NM S of the Dahshur SAM training center; B27-2, 4 NM S of Cairo West airbase; C27-2, 2.5 NM W of B27-2, which may be an alternate site or intended for other than SA-2 use and therefore is not included in the total count of SA-2 sites (it differs from the usual SA-2 site configuration in that it lacks the adjacent buildings normally associated with an on-site support area); and B33-2 at Shubra Shihab to the NNW. These are all link types, except for the unique grid configuration of B09-2, which is located in a wadi. Base construction of these sites has been completed; all except possibly the Cairo West sites have launchers and guidance equipment in place.

The Port Said area has two link type sites: A30-2, a temporary site to the W of the Suez Canal entrance, located on Port Said airfield,

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first reported in mid-October 1964, at which time FAN SONG radar and Scorpion launchers (with missiles) were already in place; and A13-2, a fixed site under construction on the SE outskirts of Port Said, E of the canal entrance.

In the Ismailia area three daisy link sites are under construction: the fixed site B09-2 some 12 NM E on the Sinai, and the two temporary sites B19-2, 12 NM to the S, and B01-2, 11 NM to the N.

Six sites surround Suez: C01-2 (fixed, link pattern), 22 NM to the N; B06-2 (fixed, fan type), 12 NM ENE; A34-2 (temporary, link type), 3 NM NW; B35-2 (temporary, link type), 14 NM NNW (the fixed sites are under construction and the temporary sites have equipment in place), and the two fixed link-type sites on either side of the southern entrance to the Suez Canal: B15-2 at Ras Sudr, about 13 NM SSE of Suez, and B22-2, 18.5 NM SW of Suez. The latter two are still under construction; however, B22-2 has a temporary site adjacent which has FAN SONG radar, launch positions occupied, and guidance equipment and generator vans in place.

The Aswan area has three fixed sites: B07-2 (fan type), some 12 NM NE, B22-2 (link type) about 13 NM SW, and B33-2 (link type), some 11 NM NNW. Site B22-2 has been completed and appears to have launchers in place, guidance area occupied, and two missile transporters on hand; the other two sites are still under construction.

Support Installations. Egypt now has four SAM support installations: one at Abu Qir in the Alexandria area; one E of Cairo; one NW of Suez, and the fourth in the Aswan area. All are Soviet type IL facilities capable of servicing four or more SAM sites; each has a storage capacity for 192 SA-2 missiles. These installations differ from the on-site

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support facility in that they generally include all equipment and facilities necessary for transporting, assembling, storing, maintaining, checking, inspecting, testing, and fueling of missiles, plus storage for major missile components such as fins, boosters, warheads, fuses, missile bodies, and probably bulk component replacement parts. The on-site support area, normally found at each SAM site, usually contains only an SA-2 missile storage building, a transporter and maintenance garage, and a workshop.

B. Missiles

An operational Soviet SA-2 site has six missiles on launchers, six additional in the missile hold revetments, and six missiles held in reserve in the on-site support area, or a total of 18 weapons per SAM site. Additional weapons would be required for training and for replacement in support of sustained operations; the latter would be held in reserve storage at the SAM support facilities.

It is not known how many missiles have been contracted for or delivered to date. A few probably were delivered in the latter part of 1962 -- six SA-2's were displayed in the 23 Jul 63 parade commemorating the 11th anniversary of the UAR revolution, and some four or five have been fired for test purposes and to impress visiting foreign dignitaries. In October 1964 Egypt acquired the Iraqi missiles (reportedly 16) since Iraq is no longer interested in the SA-2 system. According to collateral sources a large number of possible SA-2 missile-related crates were off-loaded from the Soviet freighter KREML in April and May 1965. The current estimate is that Egypt may have some 250 missiles on hand.

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C. Acquisition Radar

The Soviet SA-2 system usually employs the SPOON REST acquisition radar, although KNIFE REST B radar equipment could be used.

An Egyptian armed forces committee inspected the SPOON REST equipment in the Soviet Union in December 1964, but it is not known whether Egypt has contracted for this acquisition radar. There have been no indications of SPOON REST deliveries; however, Egypt is known to have KNIFE REST A and C radar equipment.

D. Missile Crews

The typical Soviet SA-2 firing unit, the SAM battalion, consists of about 10 officers and 118 enlisted men assigned to three sections: the Hq Section (4 officers, 58 men), the fire control battery (4 officers, 30 EM), and the firing battery (2 officers, 30 EM). The number of personnel actually assigned to each unit probably varies with the mission of the site and the importance of the defended area. The Soviet SAM brigade (or regiment) comprises from three to five battalions (SAM sites) and a technical battalion (estimated strength 170-180). The organization of the Egyptian SAM brigade is not known; presumably it will be similar to the Cuban brigade, which comprises four battalions, with an estimated battalion strength of 140-150 personnel. Since the SA-2 system has but limited capability against low level attack, a light AA (LAA) battery may be included in the organization of each SAM battalion for local defense.

The estimated manpower strength of the Egyptian SAM brigade will probably be between 750 and 800, including support personnel but excluding any LAA battery. In view of the 22 known SAM sites, it appears that Egypt intends to have at least five or six brigades, which would require 3,750-4,000 or 4,500-4,800 personnel to activate and maintain the SA-2 system.

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No information has been obtained concerning the availability or proficiency of Egyptian missile technicians. Nasir's agreement to train Cypriot SAM personnel indicates that some Egyptians have become proficient in the operation of the SA-2 weapon; how many is not known, but our estimate would be at least 600.

E. Training

Only fragmentary information has been obtained on training of Egyptian missile crews. Soviet training of Egyptian personnel in the USSR probably began during 1962. It is believed that the first contingent of trainees was intended as the nucleus of the Egyptian training cadre at the Dahshur training center. In July 1963 Nasir claimed that 600 Egyptians had completed their training. Considering the length of training required to complete a U.S. missile training course -- six months to 36 weeks of basic training, plus on-the-job training, it is estimated that the Egyptians (who generally have a very low aptitude for technical training) would require at least one year or more. Therefore, it is more likely that the 600 were still undergoing training in July 1963. A recent report states that Egyptian troops are selected in groups of 30 each for basic training at Dahshur, and that only 5 or 6 of each group reportedly are capable of the advanced training required to activate a SAM site. Assuming that the 600 men were actually qualified SAM operators in 1963, and that several groups of 30 men each have since successfully completed advanced training, Egypt is still far short of the necessary manpower to operate the SAM system as a whole.

F. Current Capabilities and Future Trends

Although FAN SONG radar, launchers, generator trailers, and other

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equipment are in place at a number of the sites, there is no evidence that any is operationally ready as yet. None has been provided with acquisition radar, except possibly the site at Port Said airfield, where KNIFE REST radar is known to be available. However, the fixed sites in the Alexandria and Cairo areas, Aswan B22-2, and the temporary sites which have equipment in place, could be made operational within 8-10 hours if sufficient acquisition radars are on hand. As to manpower, Egypt may now have sufficient trained personnel to man four, possibly six, battalions (SAM sites) or may have them by the end of the year. It is estimated that all of the 22 confirmed sites may be ready for operation by mid-1966. However, it is highly unlikely that trained manpower, acquisition radars, and the number of missiles will be sufficient to support the SAM system as a whole.

At least one additional site is anticipated in the Aswan area, and a recently reported site 2 NM NE of Al-Arish would indicate that the Egyptian SAM system will comprise six brigades. It is also anticipated that another type II SAM support facility will be provided to service the sites in the northern part of the Suez Canal zone and the Sinai.

Analysis of the B model, S-band SA-2 (GUIDELINE/FAN SONG) system deployed in Egypt indicates the range to be about 17 NM. The system is normally effective from 3000 feet up to 80,000-90,000 feet using high explosive warheads. Recent evidence indicates that modifications can be made, and with favorable siting conditions, will provide some capability as low as 1500 feet. A dead zone with a radius of about 5 nautical miles is caused by (1) lack of guidance control during the boost phase and (2) maneuver limits of the missile. The Egyptian missile probably will have a conventional HE warhead.

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Once the system becomes operational, Egypt will have an adequate

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[redacted] except for the low-level defense limitation. There has been a considerable relocation of early warning radars during the last two or three years in an apparent effort to provide a more adequate EW network for use in conjunction with the SAM system. Egypt probably has acquired sufficient missiles and manpower to operate four to six SAM sites in an emergency, but whether the crews and missiles could be deployed to a threatened area in time to provide the required defense, and how well the crews are trained in operating the SA-2 weapon has yet to be demonstrated. Nonetheless, the Egyptian SAM system now represents a potential threat to any foreign intruder aircraft overflying Egyptian territory.

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ALEXANDRIA (AL ISKANDARIYAH) SAM SITE B05-2 (31°18'30"N 030°03'10"E): 10.1 NM NE of Alexandria.

A. Annotations.

1. Walled security area with guard towers at each corner; this site 410'.
2. Large L-shaped building, possible missile/vehicle storage building; wing 135 x 55, base 135 x 60, roof appears higher.
3. Large multi-story building, possible headquarters building, 210 x 35.
4. Possible officers' quarters, 150 x 30, with (2) buildings, 30 x 15, appear attached.
5. Tent camp, probable NCO/EM: (15) tents, 20 x 15, (4) tents appear attached, 20 x 15, (1) unidentified building, 25 x 20, (1) unidentified building, 40 x 15.
6. (3) Canvas covered vehicle revetments, 65 x 10.
7. (6) Canvas covered prime mover revetments, 90 x 10.
8. (4) Canvas covered T-shaped revetments, probable missile hold; wing 65 x 20, base 35 x 15; earth covered personnel shelter.
9. (6) Canvas covered launch-shaped revetments in fan shape; longest inside diameter 70, shortest inside diameter 50.
10. Central guidance area, revetment appears canvas covered. Overall area 125 x 85.
11. Type II SAM Support Facility (See page 14).
12. Unidentified building, 40 x 15.
13. Appears to be an extension of walled area of Item 1 which contains three unidentified buildings; (1) 65 x 25, (1) 30 x 20, (1) 20 x 15.

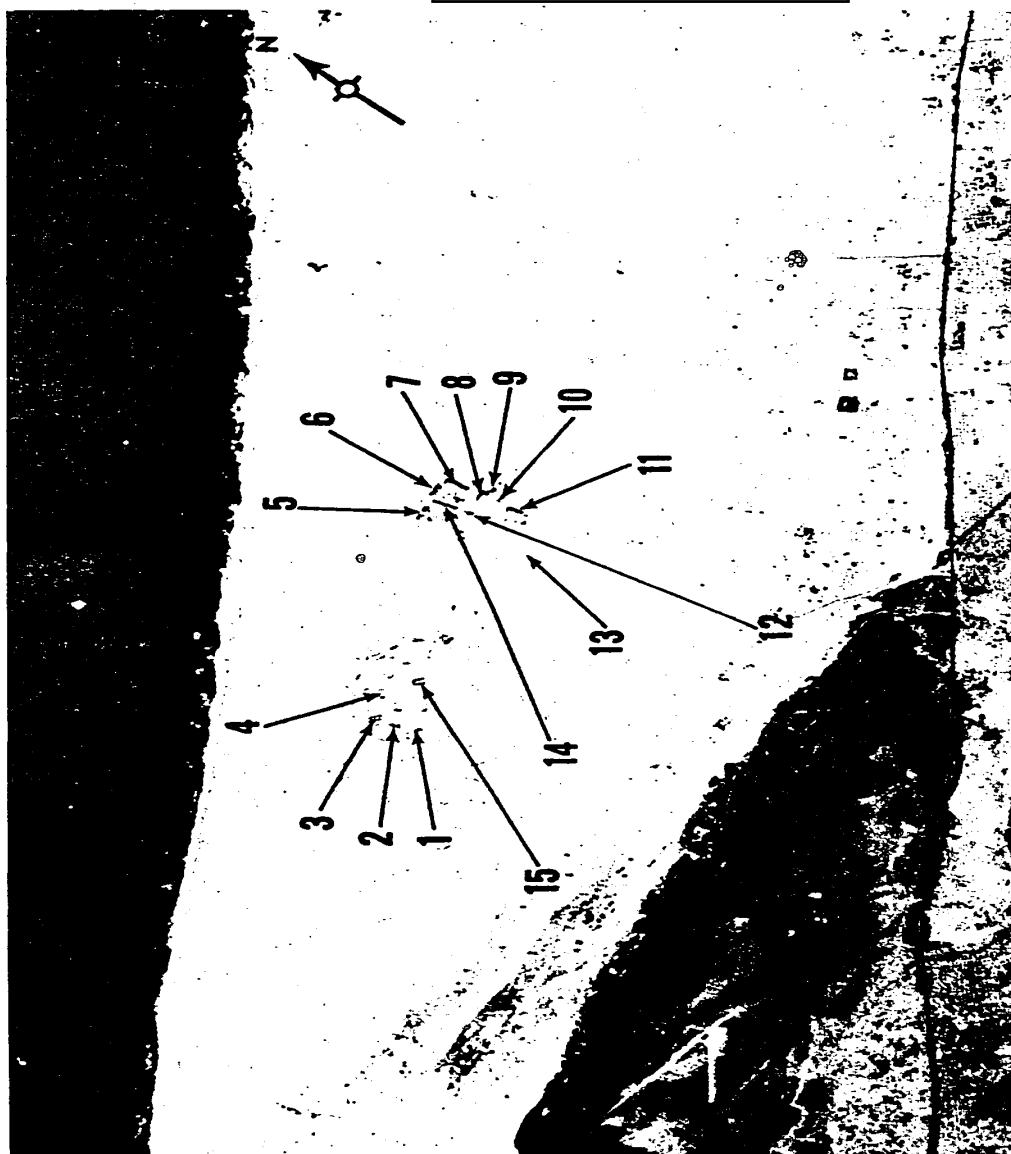
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ANNEX A, ALEXANDRIA, B05-2

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ALEXANDRIA SAM SITE B24-2 (31°05'22"N 029°43'36"E): 12 NM SW of Alexandria.

A. Annotations.

1. (3) Vehicle drive-thru revetments, 50 x 10.
2. (6) Prime mover drive-thru revetments, 115 x 10.
3. (3) T-shaped missile hold revetments; wing 150 x 15, base 50 x 10; earth covered personnel shelter.
4. (6) Launch pads in fan shape pattern; longest inside diameter 60, shortest inside diameter 40.
5. Probable officers quarters, (2) buildings 55 x 35.
6. Blunt T-shaped building, probable mess hall; wing 25 x 55, base 85 x 45.
7. Dogleg-shaped building, probable NCO/EM barracks, 200 x 40.
8. Possible transporter vehicle/maintenance building, 110 x 15.
9. Operations/guard tower, 15 x 15.
10. Earthen blast mound, 100 x 50.
11. SA-2 guideline missile storage building, 130 x 45.
12. Administration/security building, 30 x 30.
13. Outer security fence can barely be seen.
14. Elongated T-shaped building, vehicle shed and workshop; wing 100 x 30, appears to have higher roof, base 100 x 20.
15. Central guidance area, U-shaped revetment appears occupied, longest inside diameter 100, shortest inside diameter 40.

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ALEXANDRIA SAM SUPPORT FACILITY TYPE II (31°18'34"N 030°03'12"E): 10 NM NE of Alexandria.

A. Annotations.

1. Walled security area, 575 x 375, with guard tower, 10 x 10, at each corner.
2. (2) Probable transporter garage, 200 x 40.
3. Probable prime mover vehicle/maintenance building, 200 x 40.
4. Possible chemical lab, 50 x 35.
5. Irregular shaped security wall surrounding assembly area with (8) guard towers, 10 x 10, spaced at intervals just outside the wall.
6. Rectangular apron, 90 x 65.
7. Missile assembly building, 60 x 40.
8. (2) Buildings, 15 x 10, possible fuse test.
9. SA-2 site (see Alexandria, B05-2).
10. Waiting circle.
11. (8) Unidentified buildings with (7) more just outside the wall nearby, 20 x 15.
12. Probable sustainer fueling point. (3) Semi-buried horizontal tanks, 25 x 5 diameter; and probable pump house, 20 x 15.
13. Fuse storage building, 20 x 20.
14. Warhead storage building, 40 x 35.
15. Earthen blast wall, 175 x 55.
16. Booster storage building, 100 x 30.
17. Unidentified building, 25 x 25.
18. Sustainer (second stage) missile storage building, 225 x 80.

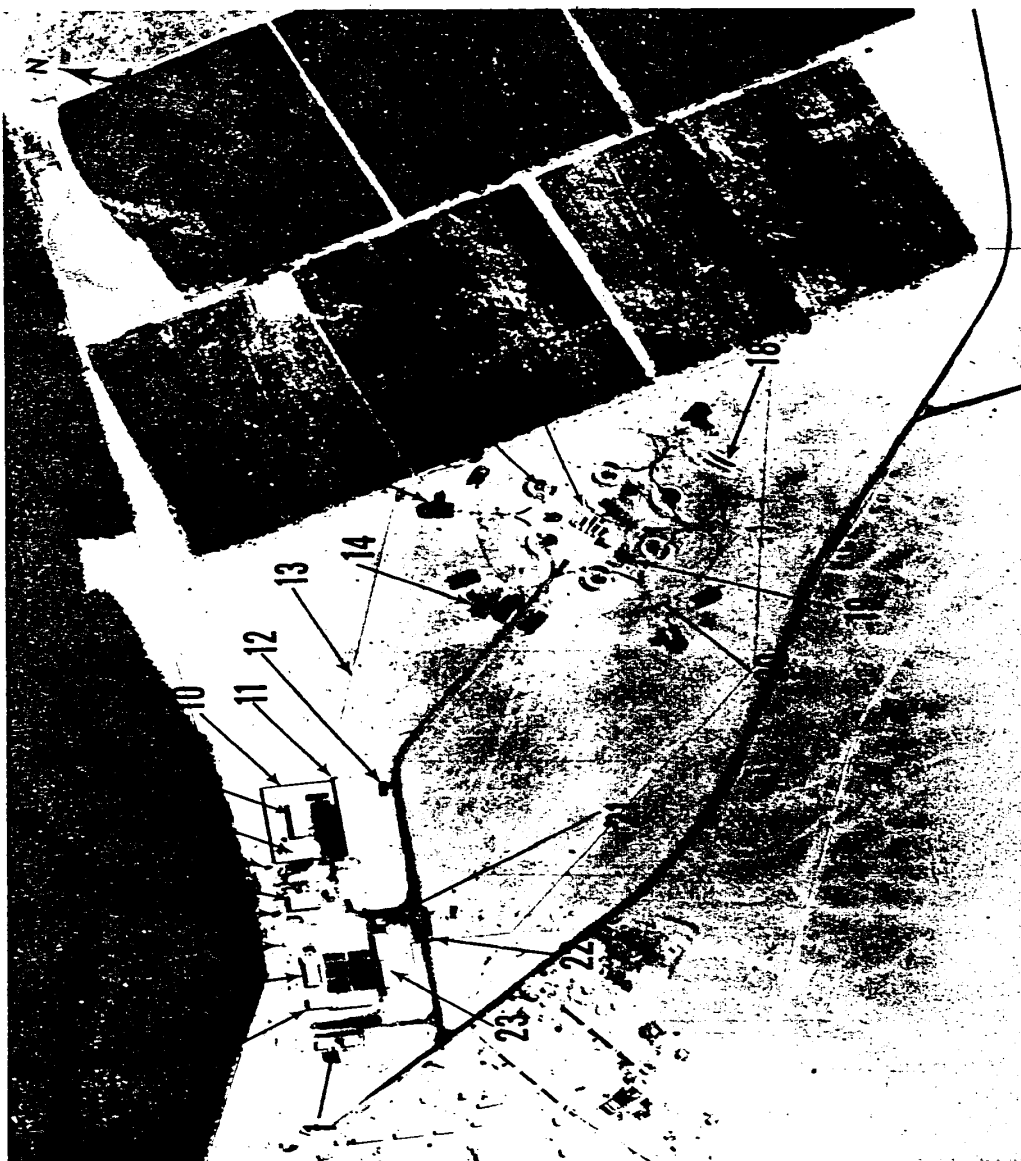
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ANNEX A. ALEXANDRIA. Support Facility.

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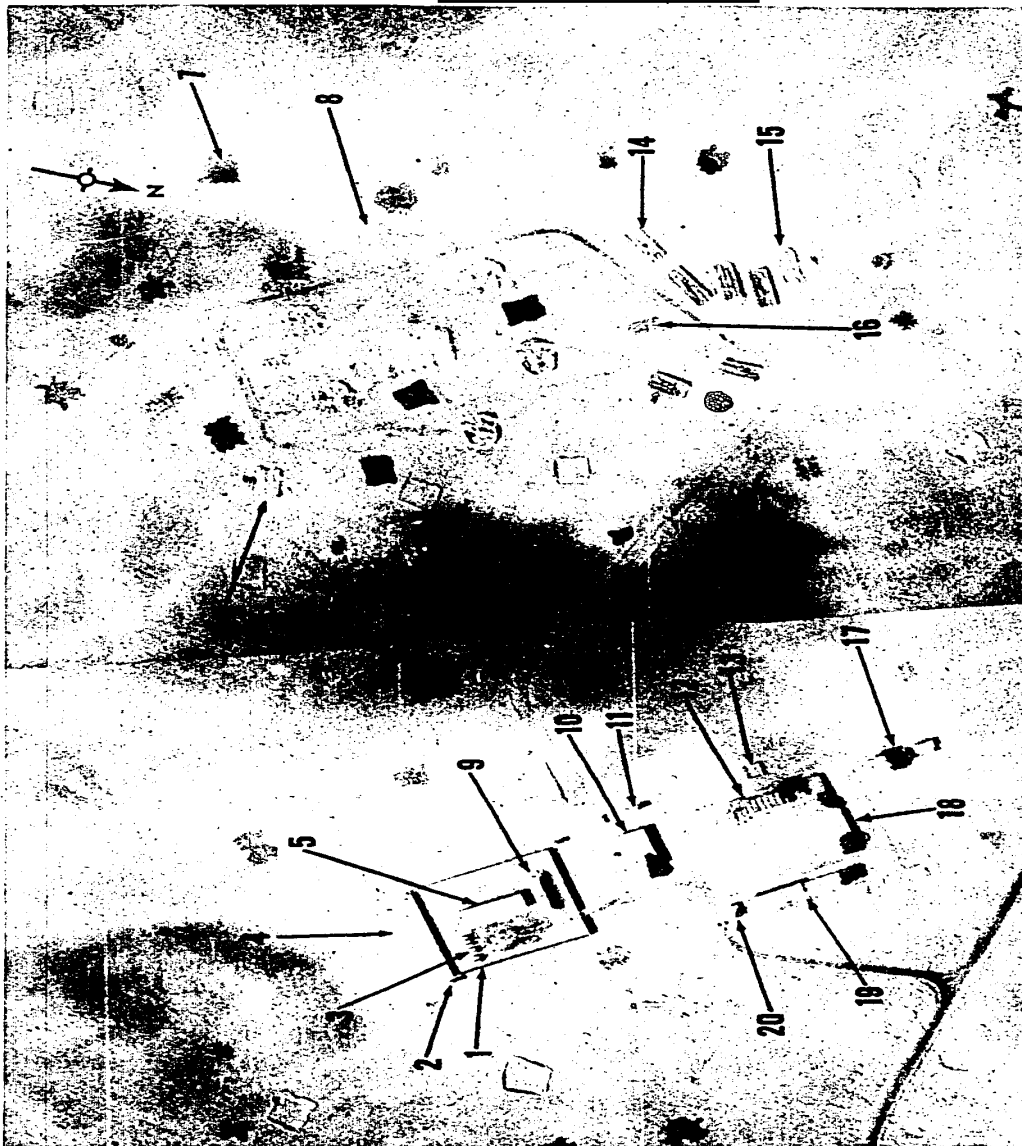
CAIRO (AL QAHIRAH) SAM SITE B04-2 (30°20'50"N 031°28'40"E): 22 NM NNE of Cairo.

A. Annotations.

1. Probable officers quarters (2) buildings, 55 x 45.
2. Dogleg-shaped building, probable NCO/EM barracks, 200 x 40.
3. Blunt T-shaped building, probable mess hall; wing 25 x 55, base 85 x 45.
4. U/I building 10 x 10.
5. Operations/guard tower, 15 x 15.
6. Possible transporter vehicle/maintenance building, 110 x 55.
7. Guard tower 10 x 10, vehicle/maintenance.
8. Earthen blast mound, 110 x 50.
9. SA-2 guideline missile storage building, 130 x 45.
10. Walled area 290 x 230.
11. Guard tower, 10 x 10.
12. Possible vehicle fueling and motor supply point, (2) buildings 35 x 20, 20 x 10.
13. Outer security fence irregular in shape. Note row of flood lights just inside and parallel to fence line.
14. Possible missile hold, T-shaped revetment; wing 60 x 20, canvas covered; base 50 x 10; earth covered personnel shelter.
15. (3) T-shaped missile hold revetments, wing 80 x 20, canvas covered; base 50 x 10; earth covered personnel shelter.
16. (6) Occupied launch pads; longest inside diameter 60, shortest inside diameter 40.
17. Central guidance area contains:
  - (1) FAN SONG radar.
  - (3) Generator revetments 55 x 10, occupied.
  - (1) Transformer/substation revetment, 70 x 10, occupied.
  - (1) Command revetment, 15 x 10.
  - (1) Guidance/equipment revetment, 140 x 10, canvas covered.
  - (1) Vehicle bunker, 20 x 10 partially covered.
18. (6) Prime mover revetments, 100 x 10; (5) canvas covered.
19. (3) Vehicle revetments, 40 x 10, canvas covered.
20. Outer circular road at launch site, 730 diameter.
21. Possible administration/security building, 35 x 30.
22. Security guard building, 10 x 10.
23. Elongated T-shaped building, vehicle sheds and workshop; wing 100 x 30, appears to have higher roof, base 100 x 20.

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CAIRO SAM SITE B09-2. (30°04'16"N 031°32'00"E): . 15 NM E of Cairo.

A. Annotations.

1. Security walled area, 265 x 215.
2. Guard tower, 10 x 10; another at adjacent corner just outside the wall, 10 x 10.
3. (7) Vehicles, 18 x 8.
4. Outer security fence at on-site support area, 1145 x 365.
5. SA-2 guideline missile storage, 130 x 45.
6. (3) T-shaped, probable missile hold revetments: wing outside dimensions, 80 x 40, canvas covered; base outside dimensions, 40 x 10; earth covered personnel shelter.
7. Outer security fence, darkened odd-shaped patterns are probably oiled surfaces to keep sand from blowing away from around fence post. Others in the area are for camouflage.
8. (6) Occupied canvas covered launch revetments; longest outside diameter 80', shortest outside diameter 60'.
9. Earthen blast mound, 115 x 60.
10. Probable transporter vehicle/maintenance garage, 100 x 55. Note camouflage.
11. Operation/guard tower, 15 x 15.
12. Blunt T-shaped building, probable mess hall; wing 25 x 50, base 85 x 40.
13. Unidentified walled area, 35 x 30.
14. (6) Probable prime mover revetments, canvas covered; (4) outside dimensions 95 x 30, (2) outside dimensions 75 x 30.
15. T-shaped probable missile hold revetment; wing 80 x 40, canvas covered, base 40 x 10; earth covered personnel shelter.
16. (3) Canvas covered vehicle revetments, outside dimensions 55 x 30.
17. (2) Buildings, probable officers' quarters. 50 x 30; note camouflage.
18. Dogleg-shaped building, probable NCO/EM barracks, 190 x 40. Note camouflage.
19. Elongated T-shaped building, vehicle shed and workshop; wing 100 x 30, roof appears higher; base 100 x 20.
20. Possible administration/security building, 25 x 20.

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ANNEX B. CAIRO. B09-2.

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CAIRO (DUMMY) SAM SITE BO9A-2 (30°05'10"N 031°36'05"E): 19 NM E of Cairo.

A. Annotations.

1. (6) Shallow launch revetments in an irregular pattern, each occupied with a dummy scorpion launcher; longest inside diameter 80', shortest inside diameter 60'.
2. Guidance area, note wood and fabric, to simulate the various vans associated with guidance area. Again note the shallow revetments.
3. Probable fence-like structure to represent on-site support area, 375 x 375.
4. Road to site BO9-2 (4 NM) west.

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CAIRO SAM SITE B17-2 (29°45'40"N 031°21'42"E): 18.5 NM SSE of Cairo.

## A. Annotations.

1. On-site support area, outer security fence, 1135 x 360. Note row of flood lights just inside and parallel to fence line.
2. Earthen blast mound, 110 x 50.
3. Possible vehicle fueling area, oiled surface, 140 x 60.
4. Guard/security building, 20 x 20.
5. Elongated T-shaped building, vehicle shed and workshop; wing 100 x 30, appears to have higher roof; base 100 x 20.
6. Possible missile hold T-shaped revetment; wing 60 x 10, base 45 x 10; earth covered personnel shelter.
7. Outer security fence of launch area, 1270 x 1120; small dark odd-shaped areas appear to be oiled surface to keep sand from blowing away.
8. Unoccupied trench, 1870 x 05.
9. Central guidance area contains:
  - (1) FAN SONG radar.
  - (3) Generator revetments, 40 x 10, occupied.
  - (1) Transformer/substation revetment, 60 x 10, occupied.
  - (1) Guidance/equipment revetment, 80 x 10, occupied.
  - (1) Command revetment, 20 x 20.
  - (1) Vehicle revetment, 20 x 10.
10. (6) Occupied and canvas covered launch positions. Longest outside diameter 85, shortest outside diameter 65.
11. (3) T-shaped missile hold revetments; wing 75 x 20, base 45 x 10; earthen covered personnel shelter.
12. Outer circular road at launch site, 725 diameter.
13. (6) Prime mover revetments, 85 x 10.
14. Alternate site, (6) unoccupied launch revetments.
15. Alternate site, (6) unoccupied launch revetments.
16. (3) Vehicle revetments, 55 x 10.
17. Possible road surfacing equipment and supplies.
18. Probable officers' quarters, (2) buildings 55 x 35.
19. Dogleg-shaped building, probable NCO/EM barracks; 200 x 40.
20. Blunt T-shaped building, probable mess hall; wing 25 x 55, base 85 x 45.
21. Possible transporter vehicle/maintenance building, 110 x 55.
22. Operations/guard tower, 15 x 15.
23. Walled security area, 280 x 215.
24. SA-2 guideline missile storage building, 130 x 45.

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CAIRO SAM SITE B21-2 (29°47'43"N 031°07'58"E): 16 NM SSW of Cairo.

A. Annotations.

1. (6) Unoccupied launch revetments, possible alternate site; longest inside diameter 65, shortest inside diameter 40.
2. (6) Unoccupied launch revetments, possible alternate site; longest inside diameter 65, shortest inside diameter 40.
3. (3) Vehicle drive-thru revetments, 50 x 10.
4. (6) Occupied launch revetments; longest inside diameter 65, shortest inside diameter 40.
5. (1) T-shaped revetment, missile hold; wing 100 x 15, base 50 x 10; earth covered personnel shelter.
6. Blunt T-shaped building, probable mess hall; wing 25 x 50, base 85 x 40.
7. Dogleg-shaped building, probable NCO/EM barracks, 200 x 40.
8. Probable officers' quarters, (2) buildings, 55 x 35.
9. Elongated T-shaped building, vehicle shed and workshop; wing 100 x 30, roof appears higher; base 100 x 20.
10. Probable transporter vehicle/maintenance garage, 110 x 55.
11. Walled area, 300 x 230.
12. SA-2 guideline missile storage building, 140 x 40.
13. (6) Prime mover drive-thru revetments.
14. (3) T-shaped revetments, probable missile hold; wing 150 x 15, base 50 x 10; earth covered personnel shelter.
15. Occupied guidance area contains:
  - (1) FAN SONG radar.
  - (1) Guidance/equipment revetment, 120 x 10.
  - (3) Generator revetments, 50 x 10.
  - (1) Transformer/substation revetment, 80 x 10.
  - (1) Vehicle revetment, 40 x 10.

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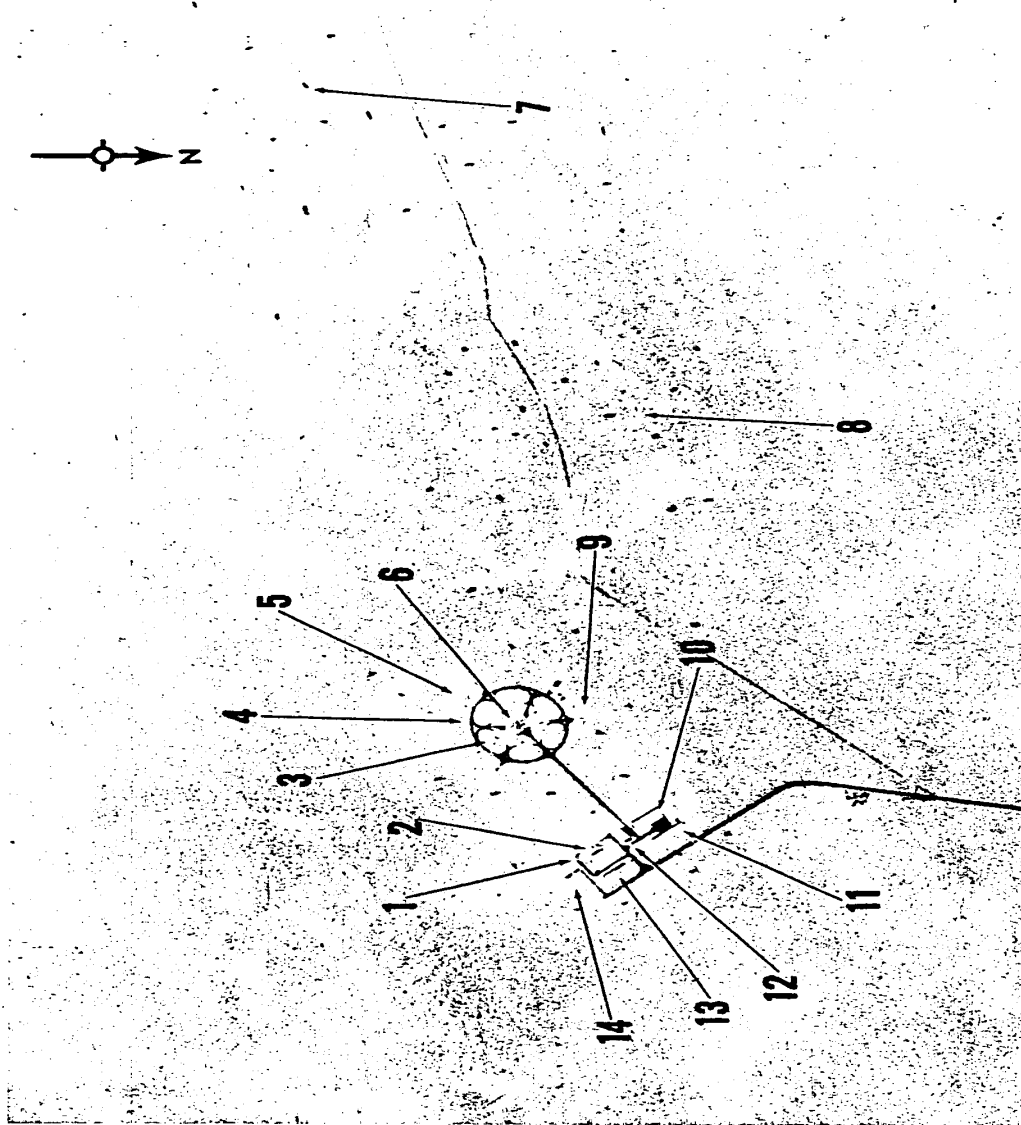
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ANNEX B. CAIRO. B21-2.

Approved For Release 2003/12/19 : CIA-RDP78T05439A000500320022-1

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CAIRO SAM SITE B27-2 (30°02'47"N 030°54'41"E): 19 NM W of Cairo.

A. Annotations.

1. Dogleg-shaped building, probable NCO/EM barracks, 200 x 40.
2. Probable mess hall, blunt T-shaped building; wing 25 x 50, base 85 x 40.
3. (6) Launch revetments; longest inside diameter 60, shortest inside diameter 40.
4. Outer circular road of launch area, 750 diameter.
5. (6) Prime mover revetments, 100 x 10.
6. Central guidance area.
7. (6) Unoccupied launch revetments, possible alternate site.
8. (6) Unoccupied launch revetments, possible alternate site.
9. (3) T-shaped revetments, possible missile hold; wing 110 x 15, base 50 x 10, earth covered personnel shelter.
10. SA-2 guideline missile storage building, 130 x 40.
11. Security walled area, 310 x 240.
12. Possible transporter/vehicle garage, 120 x 55.
13. Elongated T-shaped building, vehicle shed and workshop; wing 100 x 30, roof appears higher; base 100 x 20.
14. (2) Buildings, probable officers' quarters, 55 x 30.

27

25X1D

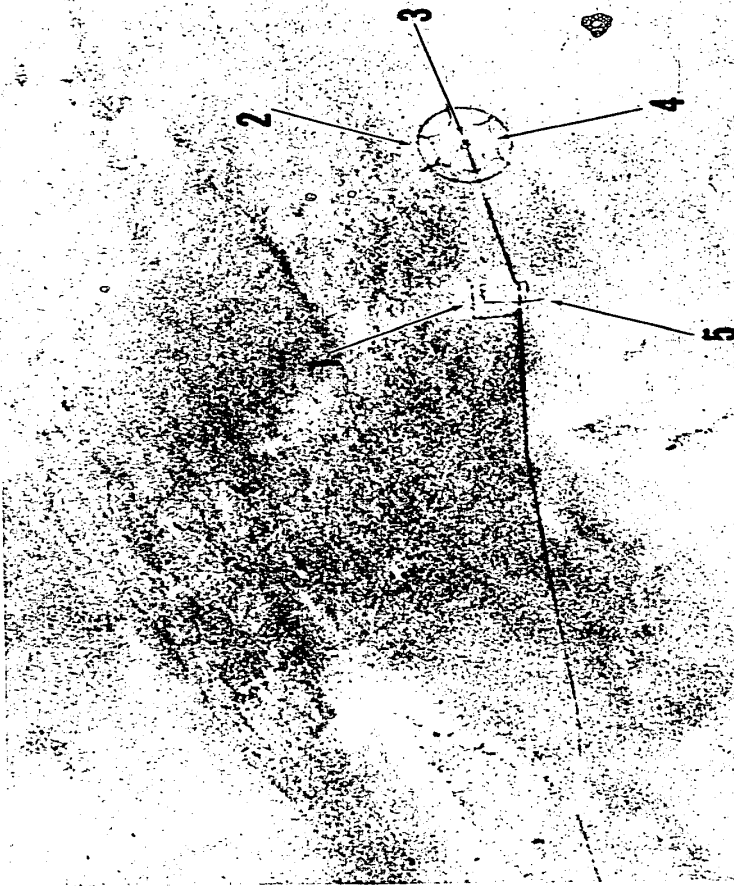
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ANNEX B. CAIRO. B27-2.

Approved For Release 2003/12/19 : CIA-RDP78T05439A000500320022-1

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CAIRO SAM SITE C27-2 (30°02'35"N 030°52'03"E): 22 NM W of Cairo.

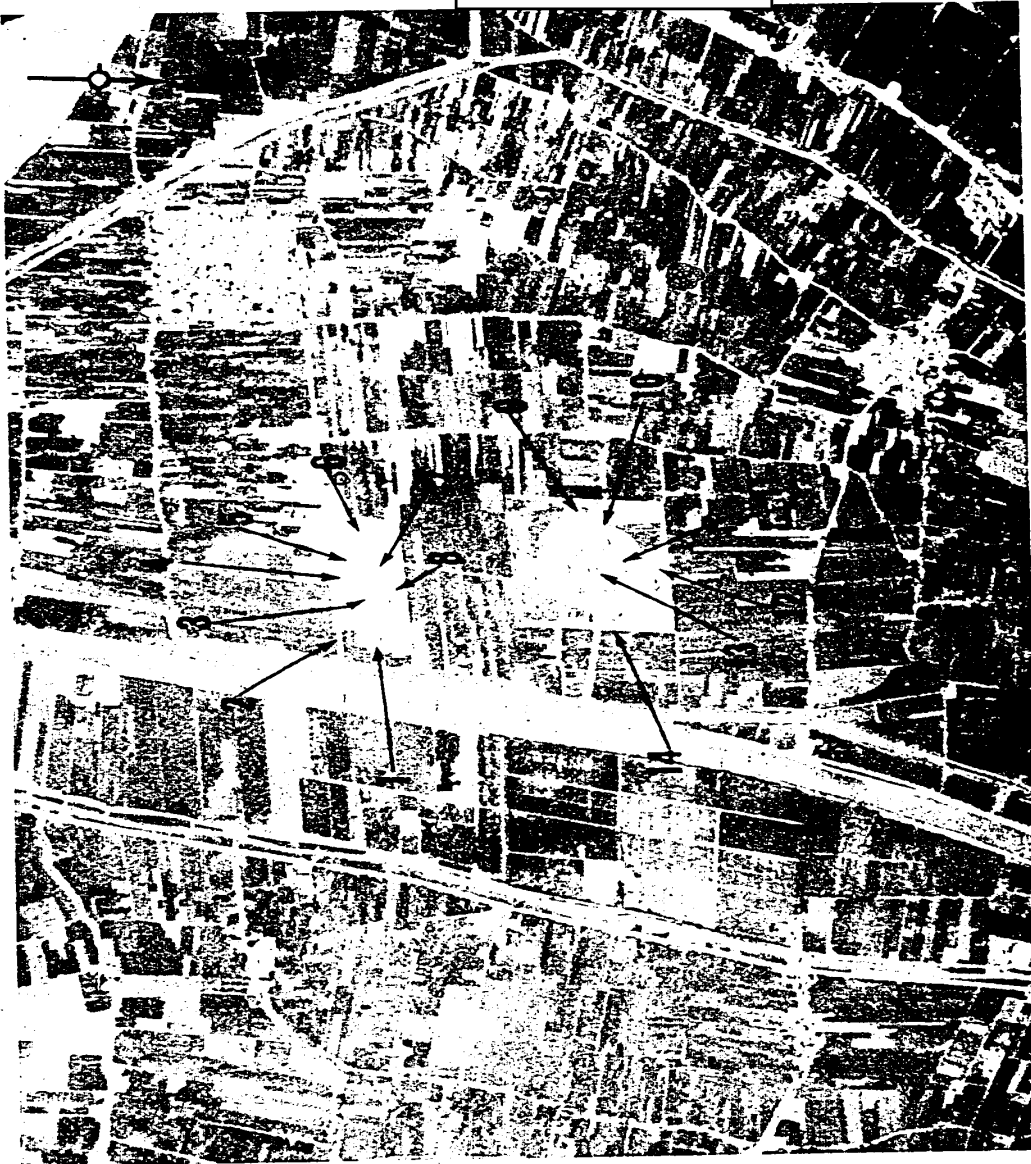
A. Annotations.

1. Probable on-site support area; however, this lacks usual buildings normally associated with on-site support areas in Egypt. Outer fence, 375 x 315.
2. Outer circular road at launch site, 750 diameter.
3. Guidance area, 90 x 40.
4. (6) Launch revetments; longest outside diameter 75, shortest outside diameter 60.
5. Possible SA-2 guideline missile storage building, 130 x 40.

TOP SECRET

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30

TOP SECRET

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TOP SECRET

CAIRO SAM SITE B33-2 (30°17'07"N 031°07'07"E): 17 NM NNW of Cairo.

A. Annotations.

1. SA-2 guideline missile storage building, 130 x 40.
2. Security wall at on-site support area, 1375 x 525.
3. Probable transporter vehicle garage and workshop, 120 x 50.
4. Elongated T-shaped building, vehicle shed and workshop; wing 100 x 30, roof appears higher; base 100 x 20.
5. Dogleg-shaped building, probable NCO/EM barracks, 200 x 40.
6. (2) Buildings, probable officers' quarters, 50 x 30.
7. Blunt T-shaped building, probable mess hall; wing 25 x 50, base 85 x 40.
8. Probable operations/security tower, 15 x 15.
9. (3) T-shaped revetments, probable missile hold; wing 100 x 15, base 30 x 10; personnel shelter.
10. Outer circular road pattern at launch area, 750' diameter.
11. (6) Occupied launch revetments; longest inside diameter 65, shortest inside diameter 40.
12. (6) Probable prime mover revetments, 100 x 10.
13. Central guidance area, 100 x 50.
14. Outer security wall of launch area, 1200 x 1175.

25X1D

31

25X1D

TOP SECRET

CAIRO SAM SUPPORT FACILITY EAST (30°04'15"N 031°22'40"E): 7 NM E of Cairo.

A. Annotations.

1. Possible security/administration building, 30 x 10.
2. U/I building, 25 x 15.
3. Probable officers' quarters, 50 x 30.
4. Elongated T-shaped building, vehicle shed and workshop; wing 100 x 30, roof appears higher; base 100 x 20.
5. (3) Probable transporters, two of which are loaded and canvas covered, 35 x 10. Approx (55) U-shaped objects, 15 diameter U/I.
6. U/I building, 25 x 15.
7. Second stage (sustainer) storage building, 220 x 80.
8. Possible oxidizer (nitric acid) storage and fueling building, 45 x 45.
9. Possible sustainer fueling point; contains (3) semi-buried horizontal tanks, 25 x 5 diameter each, and probable pump house, 20 x 20.
10. Missile assembly building, 60 x 55.
11. Waiting circle. Note sustainer canisters lined up just outside the circle, and booster crates lined up just inside the circle.
12. Foundation of what appears to be a new drive-thru building, U/C.
13. (2) Possible fuse test buildings, 10 x 10, 10 x 15.
14. Revetted fuse storage building, 20 x 20.
15. Outer security fence.
16. Revetted warhead storage building, 35 x 30.
17. Revetted booster storage building, 105 x 30.
18. Possible vehicle fueling area, vertical tank, 10 diameter.
19. U/I building, 20 x 20.
20. Walled security area, 975 x 870; there is a guard tower at each corner just outside the wall, 10 x 10.
21. New revetted area U/C, 100 x 6; there appear to be (3) semi-buried horizontal tanks in the center, 15 x 10 diameter.
22. Possible chemical lab, 60 x 45.
23. Possible prime mover, vehicle/garage and workshop, 200 x 55.
24. (2) Possible transporter garages/workshops, 200 x 55.
25. Security area, walled on 3 sides, fenced on fourth, 545 x 510; there is a guard tower at each corner just inside the wall, 10 x 10.
26. Dogleg-shaped building, probable NCO/EM barracks, 200 x 40.
27. Blunt T-shaped building, probable mess hall; wing 25 x 50, base 85 x 40.
28. Security guard building, 15 x 15.

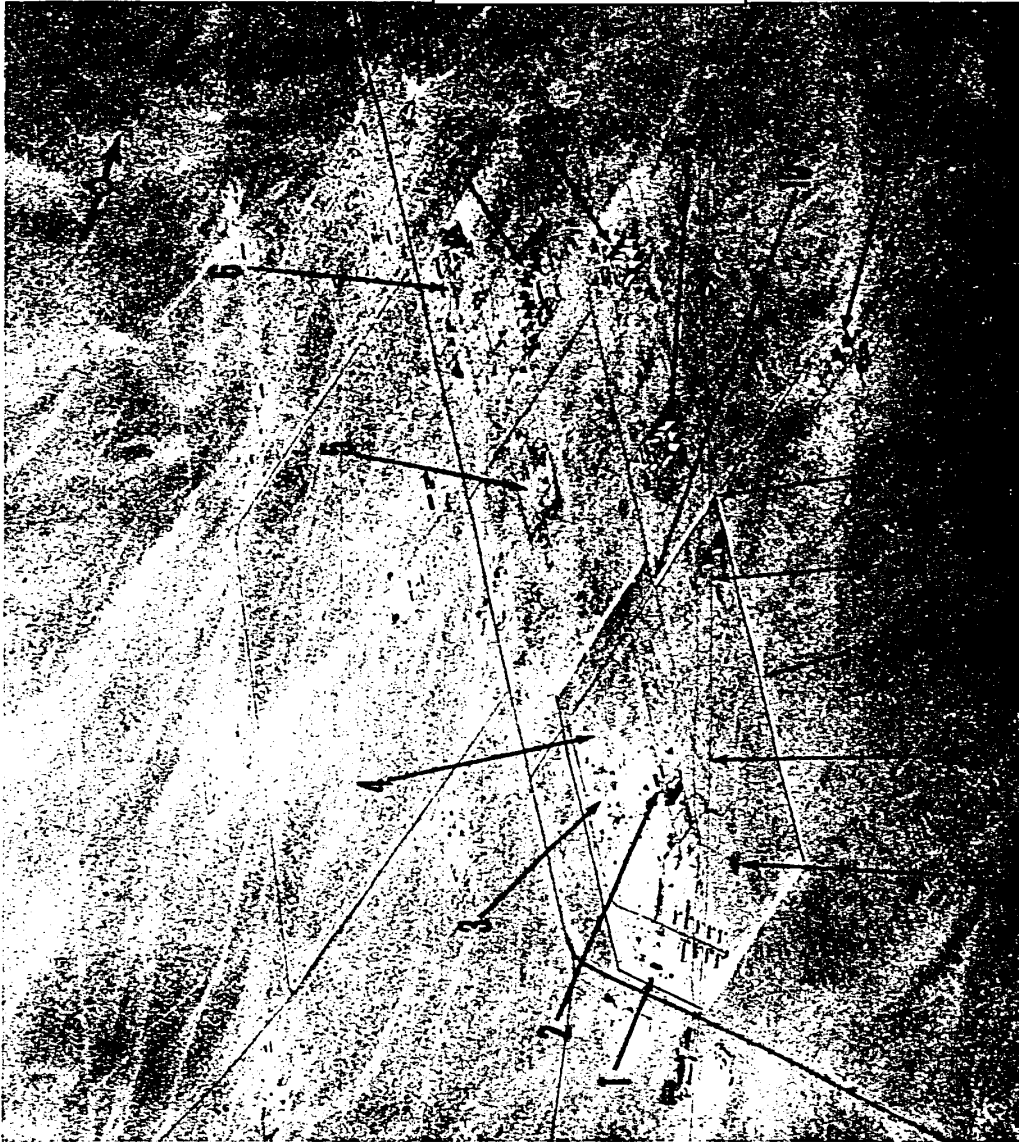
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ANNEX B. CAIRO. Support Facility.

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TOP SECRET

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CAIRO SAM TRAINING SITE, DAHSHUR (29°49'10"N 031°07'45"E): 4 NM NW of Dahshur.

A. Annotations.

1. Possible missile assembly training area contains the following buildings:

- (16) 80 x 30
- (1) 170 x 55
- (2) 225 x 40
- (1) 90 x 35
- (1) 170 x 45
- (1) 125 x 45
- (1) 55 x 25
- (1) 35 x 20

2. Possible technical instructors barracks and equipment storage area, contains the following buildings:

- (1) 150 x 50
- (1) 120 x 40 Two story barracks
- (3) 90 x 30 Two story barracks
- (2) 100 x 20
- (2) 40 x 40
- (1) 80 x 30
- (2) 40 x 30
- (2) 70 x 30
- (2) 75 x 20
- (1) 50 x 20
- (1) 60 x 35

3. Possible firing/operational instructor barracks and equipment storage area, contains the following buildings:

- (2) 100 x 40 Two story barracks
- (2) 50 x 30
- (2) 50 x 20
- (2) 45 x 30

4. Launch site for possible operational training, 750 diameter.

ANNEX B. CAIRO. Training Site.

TOP SECRET

TOP SECRET

5. Possible trainee firing battalion quarters, contains the following buildings:
- (2) 100 x 40 Two story barracks
  - (1) 120 x 50
  - (1) 50 x 25
  - (2) 100 x 30
  - (1) 75 x 25
6. Possible headquarters battalion area, contains the following buildings:
- (1) 120 x 50
  - (3) 100 x 40 Two story barracks
  - (1) 180 x 50 Administration-type building
  - (1) 100 x 45
  - (2) 75 x 20
  - (3) 40 x 40
  - (1) 100 x 40
7. Possible trainee technical battalion quarters area, contains the following buildings:
- (3) 100 x 40 Two story barracks
  - (2) 55 x 35 Two story barracks
  - (1) 55 x 35
  - (1) 120 x 50
  - (2) 100 x 30 L-shaped
  - (4) 40 x 40
  - (1) 90 x 35
  - (1) 50 x 30
  - (1) 120 x 35 Two story barracks
  - (1) 100 x 35
8. Possible trainee technical battalion quarters area, contains the following buildings:
- (3) 100 x 40 Two story barracks
  - (2) 55 x 35 Two story barracks
  - (1) 55 x 35
  - (1) 120 x 50
  - (2) 100 x 30 L-shaped
  - (1) 90 x 35
  - (1) 50 x 30
  - (1) 120 x 35 Two story barracks
  - (1) 100 x 35

TOP SECRET

9. Same as Item 8.
10. Main gate security/guard building, 20 x 20.
11. Possible trainee firing battalion quarters area, contains the following buildings:
  - (2) 100 x 40 Two story barracks
  - (1) 120 x 50
  - (1) 100 x 30 L-shaped
  - (1) 100 x 45 Two story
  - (2) 40 x 25
  - (1) 100 x 45
  - (1) 75x 30
  - (1) 45 x 30
12. Entrance gate.
13. Same as Item 11.
14. Walled security area, diameter to opposite wall, 2650.
15. Launch site for possible technical training with guidance equipment.
16. Launch site for possible technical training of FAN SONG guidance radar and equipment.

25X1D

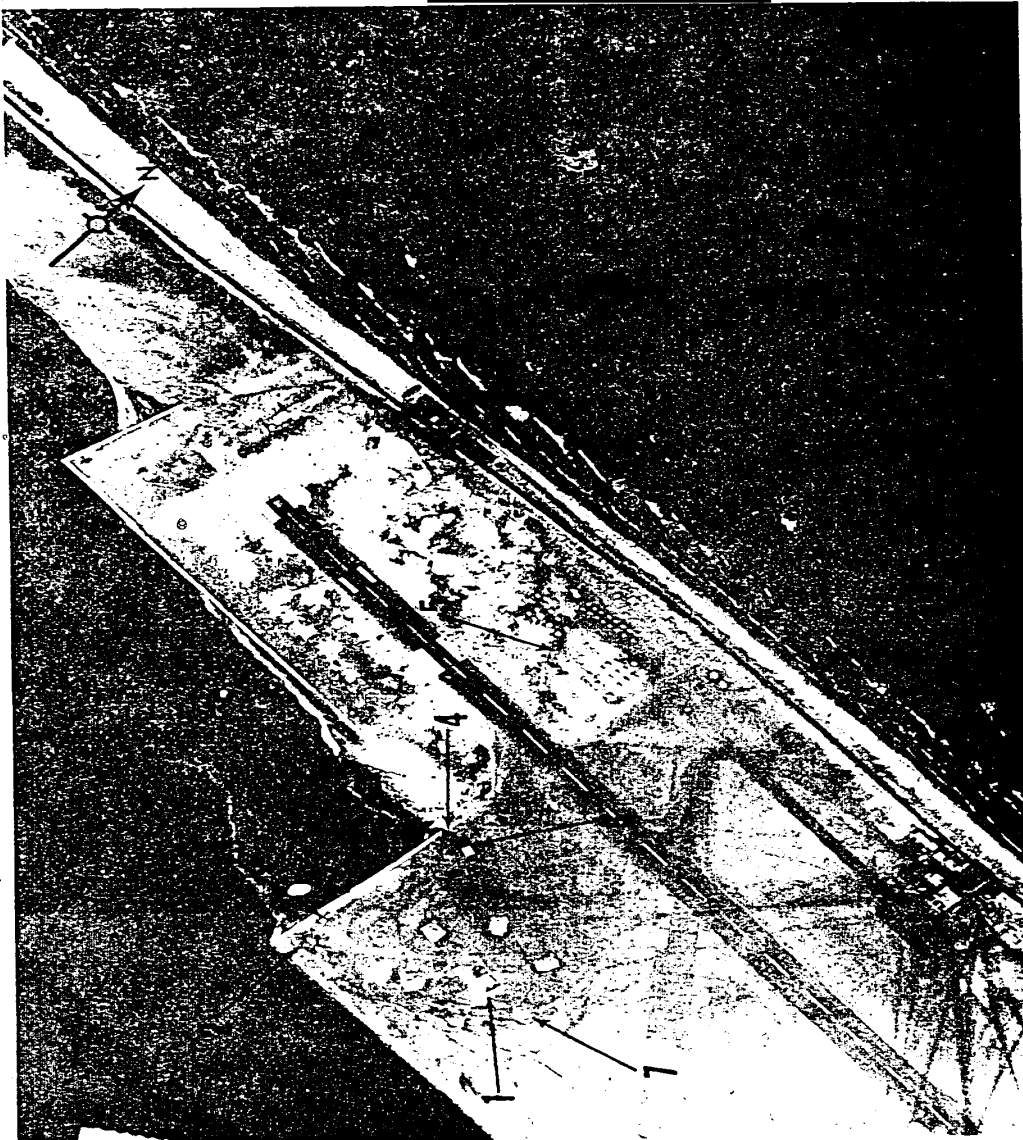
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PORT SAID SAM SITE A30-2 (31°16'35"N 032°14'20"E): At Port Said Airfield.

A. Annotations.

1. Central guidance area occupied and canvas covered, except FAN SONG radar. U-shaped revetment; longest inside diameter 115, shortest inside diameter 45.
2. (2) Revetments occupied, possible acquisition radar.
3. (2) Tents, 15 x 15.
4. (7) Prime movers, 20 x 10.
5. Tent camp
  - (47) 15 x 10
  - (3) 25 x 20
  - (2) Attached, 50 x 20
6. (7) SA-2 guideline missile transporters, 35 x 10. Four of these are missile loaded and canvas covered.
7. (6) Canvas covered occupied launch revetments; longest inside diameter 65, shortest inside diameter 40.

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25X1D

ANNEX C. PORT SAID. A30-2.

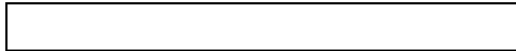
25X1D

TOP SECRET

PORT SAID SAM SITE A13-2 (31° 14' 00"N 032° 18' 55"E): 21M SSE of Port Said.

A. Annotations.

1. (6) Launch revetments under construction; longest inside diameter 65, shortest inside diameter 40.
2. Outer circular road of launch area, diameter 750.
3. (23) Tents, probably for construction workers, 20 x 15.
4. Possible on-site support area to be constructed here, 460 x 290.



25X1D

41

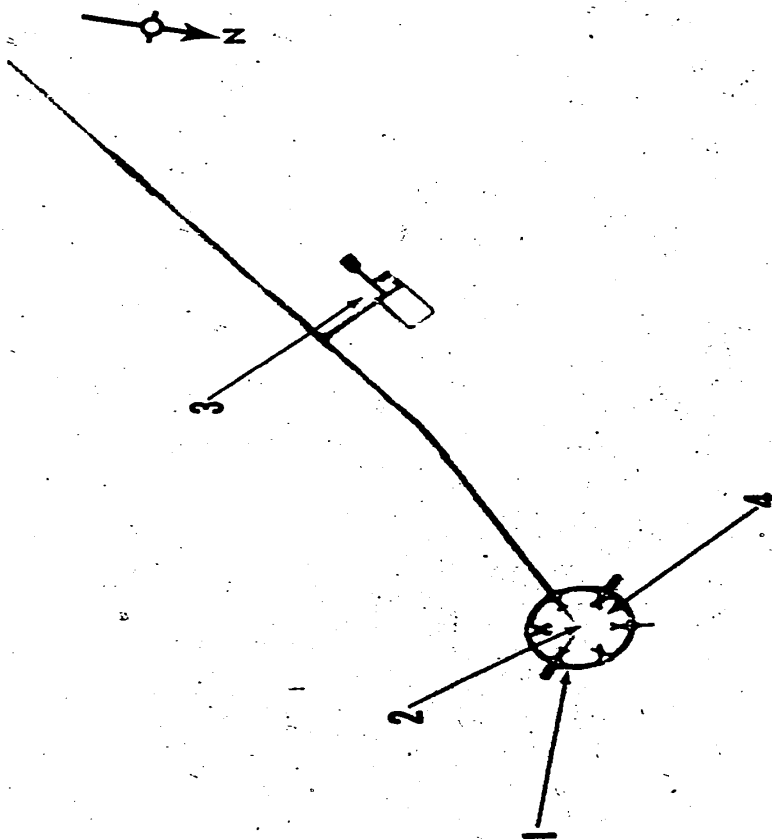
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ANNEX C. PORT SAID, A13-2.

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ISMAILIA (AL ISMAILIYAH) SAM SITE B09-2 (30°35'50"N 032°29'45"E): 11.5 NM E of Ismailia.

A. Annotations.

1. Outer circular road at launch area, 750 diameter.
2. Guidance area in early stage of construction.
3. On-site support area; oiled road pattern; early stage of construction, no buildings discernible. 3000' to launch site.
4. Launch revetments not discernible.

25X1D

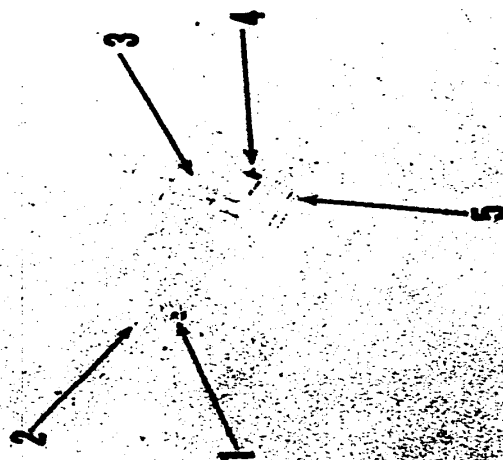
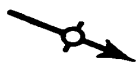
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ANNEX D. ISMAILIA. B09-2.

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TOP SECRET

ISMAILIA SAM SITE B19-2 (30°23'20"N 032°15'30"E): 3.3 NM INW of runway intersection at Fayid Airfield.

A. Annotations.

1. Central guidance area under construction.
2. (6) Launch revetments under construction.
3. Possible on-site support area being constructed here.
4. Probable construction vehicles, supplies, and workshops.
5. (15) Probable construction workers' tents.

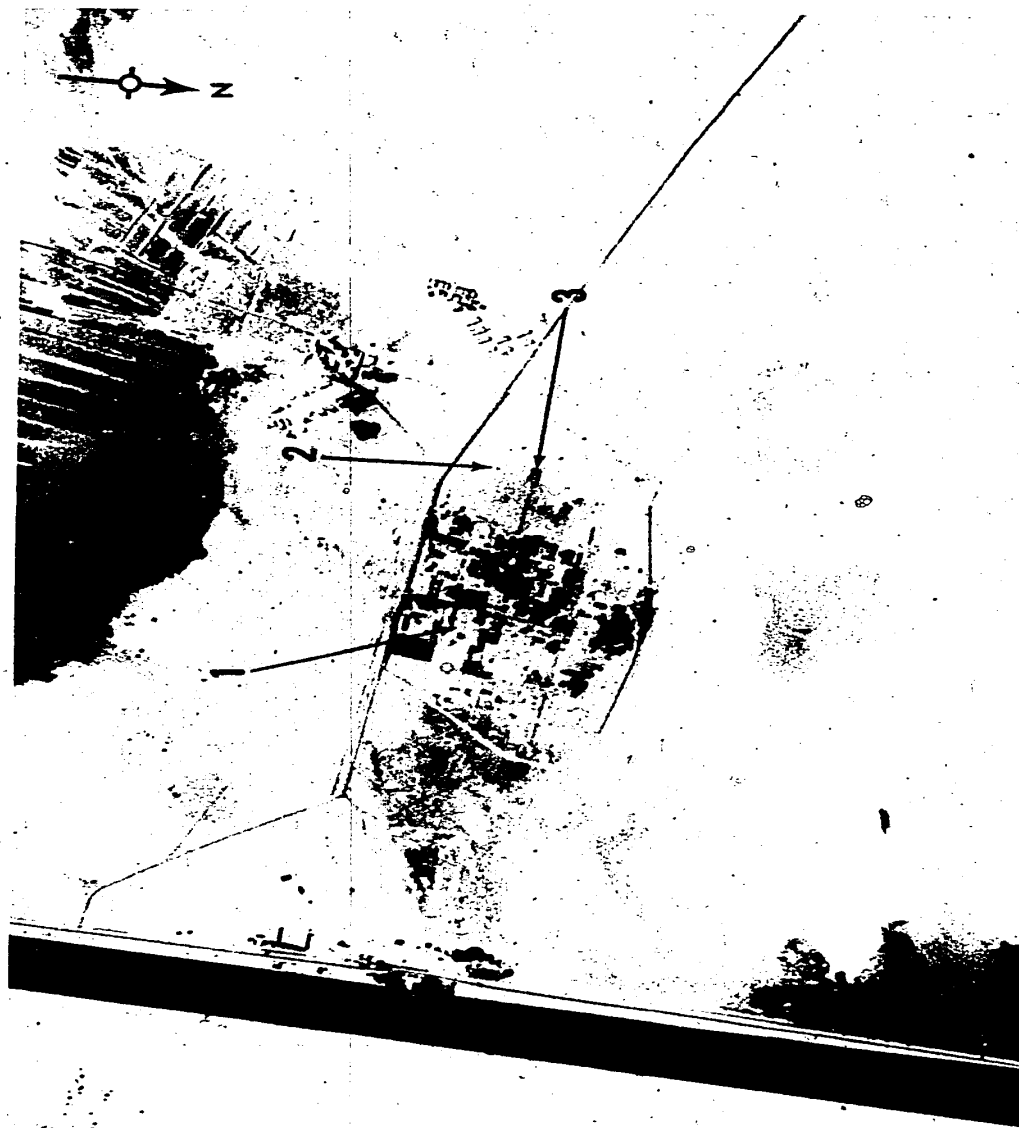
25X1D

45

TOP SECRET

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TOP SECRET

TOP SECRET

ISMAILIA SAM SITE B01-2 (30°46'20"N 032°18'05"E): In west side of El Qantara Military Camp SW and 11 NM NNE of Ismailia.

A. Annotations.

1. El Qantara Military Camp SW, probably used for on-site support.
2. (6) Launch revetments in circular pattern.
3. Central guidance area, 150 x 90.

25X1D

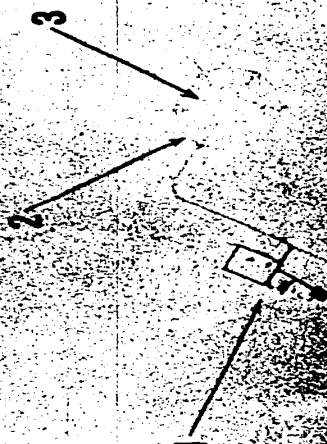
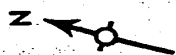


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TOP SECRET

SUEZ (AS SUWAYS) SAM SITE C01-2 (30°19'35"N 032°32'50"E): 5.5 NM NNE of runway intersection at Kabrit Airfield.

A. Annotations.

1. Oiled road pattern of on-site support area in early stage of construction.
2. Oiled circular road pattern of launch area, 750 diameter. Guidance area not discernible.
3. Launch revetments under construction.

25X1D

49

TOP SECRET

ANNEX E. SUEZ, C01-2.

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TOP SECRET

SUEZ SAM SITE B06-2 (30°04'10"N 032°44'20"E): 11.3 NM NE of Suez.

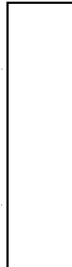
A. Annotations.

1. Central guidance area.
2. (6) Launch revetments in fan pattern.

25X1D



TOP SECRET



51

ANNEX E. SUEZ. B06-2.

TOP SECRET

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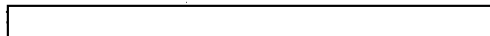
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SUEZ SAM SITE A34-2 (30°00'20"N 032°31'50"E): 2.6 NM NNW of Suez and 2700' N of Suways SAM Support Facility.

A. Annotations.

1. As Suways SAM Support Facility Type II (see page 60).
2. Tent area, approximately 24 tents, 15 x 15.
3. Occupied central guidance area, revetment appears T-shaped; wing 150 x 100, base 50 x 50 (FAN SONG radar location.)
4. (6) Occupied launch revetments in circular pattern; longest inside diameter 65, shortest inside diameter 40.

25X1D



TOP SECRET

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TOP SECRET

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TOP SECRET

SUEZ SAM SITE B35-2 (30°11'40"N 032°28'10"E): 3.3 NM SSE of runway intersection at Kabrit Airfield in the Junayfah Ordnance Depot.

A. Annotations.

1. (6) Occupied launch revetments in circular pattern.
2. Occupied guidance area.

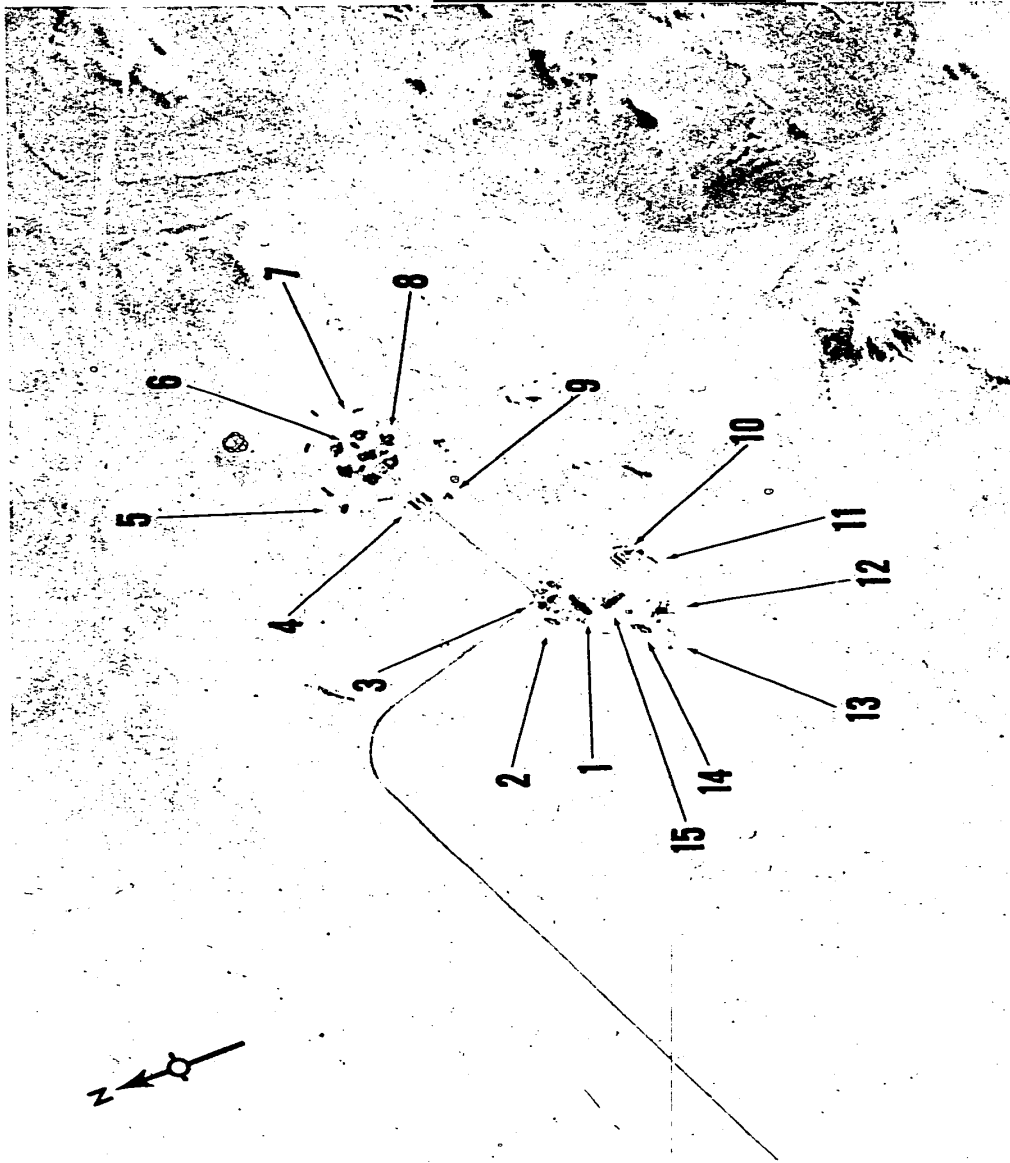
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ANNEX E. SUEZ. B35-2.

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TOP SECRET

25X1

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SUEZ SAM SITE B15-2 (29°48'02"N 032°42'10"E): 13.2 NM SE of Suez.

A. Annotations.

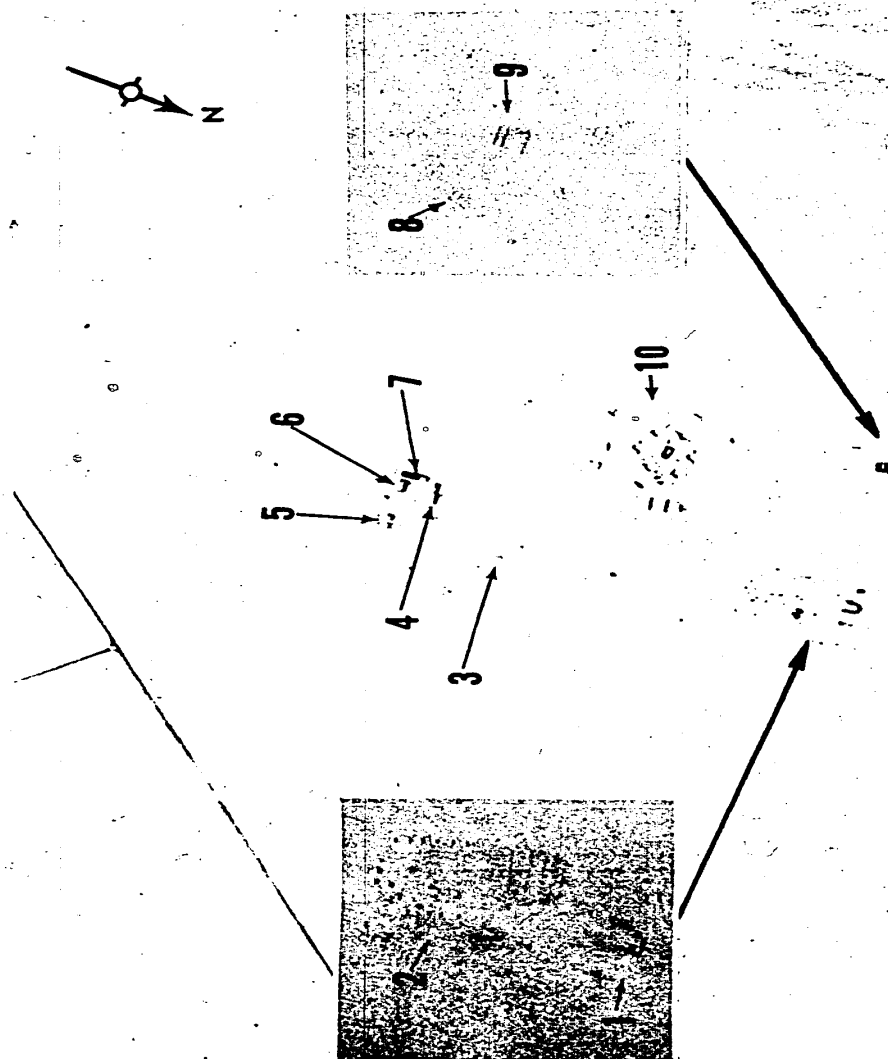
1. Elongated T-shaped building, probable vehicle shed and workshop; wing 100 x 30, roof appears higher, base 100 x 20.
2. Trench, 75 x 5.
3. (2) Buildings, probable officers' quarters, 55 x 30.
4. (6) Probable prime mover revetments, 90 x 10.
5. (3) T-shaped revetments, probable missile hold revetments; wing 75 x 15, base 40 x 10; earth covered personnel shelter.
6. (3) Vehicle revetments, 50 x 10.
7. Outer circular road at launch site, 750 diameter.
8. (6) Vacant launch revetments; longest inside diameter 60', shortest inside diameter 40'.
9. T-shaped revetment, probable missile hold revetment; wing 50 x 10, base 40 x 10; earth covered personnel shelter.
10. Blunt T-shaped building under construction, probable mess hall; wing 25 x 50, base 85 x 40.
11. Trench, 90 x 5.
12. Excavation/building under construction, 125 x 40.
13. Building foundation under construction, 100 x 55.
14. Trench, 105 x 5.
15. Dogleg-shaped building under construction, 185 x 35.

X1D

ANNEX E. SUEZ. B15-2.

TOP SECRET

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TOP SECRET

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TOP SECRET

TOP SECRET

SUEZ SAM SITE B22-2 (29°43'20"N 032°20'45"E): 18.5 NM SW of Suez.

A. Annotations.

1. Vehicle parking area, (7) probable prime movers, (6) SA-2 guideline missiles on transporters, canvas covered, and approximately (15) unidentified vehicles.
2. (40) Tents: 3 are 20 x 20; 37 are 15 x 15.
3. Probable construction site for SA-2 guideline missile storage building.
4. Elongated T-shaped building under construction, vehicle shed and workshop; wing 100 x 30, roof appears high, base 100 x 20.
5. (2) Buildings under construction, probable officers' quarters, 50 x 30.
6. Blunt T-shaped building under construction, probable mess hall; wing 25 x 50, base 85 x 40.
7. Dogleg-shaped building under construction, probable NCO/EM barracks, 190 x 40.
8. (6) Occupied launch positions (probable temporary site), longest inside diameter 60, shortest inside diameter 40.
9. Central guidance area revetment, (1) FAN SONG radar, (2) guidance/equipment vans, and 4 generator/substation vans; canvas covered.
10. Launch area under construction, outer road circular pattern, 750' diameter.

25X1D

ANNEX E. SUEZ. B22-2.

25X1D

TOP SECRET

TOP SECRET

SUEZ SAM SUPPORT FACILITY TYPE II (29°59'55"N 032°31'50"E): 2 NM NE of Suez.

A. Annotations.

1. Possible fuse test building, 10 x 10.
2. Possible fuse storage building, 20 x 20.
3. Probable warhead storage building, 35 x 30.
4. Probable booster storage building, 110 x 30.
5. Unidentified building.
6. Unidentified revetted area.
7. Probable sustainer (second stage) missile storage building, 225 x 80.
8. Security walled area, 595 x 510, with guard towers just inside at each corner, 10 x 10.
9. Elongated T-shaped building, vehicle shed, and workshop; wing 100 x 30, roof appears higher, base 100 x 20.
10. (2) Buildings, probable officers' quarters, 50 x 30.
11. Dogleg-shaped building, probable NCO/EM barracks, 200 x 40.
12. Blunt T-shaped building, probable mess hall; wing 25 x 50, base 85 x 40.
13. SA-2 SAM Site (see page 52 ).
14. (2) Probable transporter garages, 200 x 60.
15. Probable prime-mover vehicle/maintenance building. Elongated wide T-shaped building; wing 140 x 60, roof appears higher, base 60 x 50.
16. Probable chemical lab, 60 x 40.
17. Probable sustainer fueling point. (3) Semi-buried tanks, 25 x 5 diameter, and probable pump house, 20 x 20.
18. Security wall, 980 x 970, with guard towers just outside at each corner, 10 x 10.
19. Waiting circle.
20. Assembly building, 60 x 55.

25X1D

ANNEX E. SUEZ. SAM Support Facility.

25X1D

TOP SECRET

ASWAN SAM SITE B07-2 (24°10'45"N 033°05'15"E): 11.6 NM ENE of Aswan.

A. Annotations.

1. Unoccupied U-shaped central guidance revetment. °
2. Six unoccupied launch revetments, fan shaped.
3. Excavation and foundation of two buildings, probable officers' quarters.
4. Excavation and foundation of probable mess hall.
5. Probable barracks building, roof cover appears 50% completed.
6. Two probable vehicle shed/workshop buildings, appear completed.

X1D

TOP SECRET

25X1D

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TOP SECRET

ASWAN SAM SITE B22-2 (23°55'50"N 032°43'30"E): 6 NM W of Aswan Dam Airfield.

A. Annotations.

1. (6) Unoccupied launch revetments; longest inside diameter 65, shortest inside diameter 40.
2. Outer circular road at launch site, diameter 750.
3. (3) T-shaped missile hold revetments U/C; wing 150 x 20, base 50 x 10; personnel shelter.
4. (6) Prime mover revetments, 125 x 10.
5. (1) T-shaped probable missile hold with drive-thru road; wing 100 x 20, base 50 x 10; personnel shelter.
6. Elongated T-shaped building, probable vehicle shed and workshop. In late stage of construction; wing 100 x 30, appears to have higher roof, base 100 x 20.
7. Dogleg-shaped building, probable NCO/EM barracks, 200 x 40.
8. (2) Excavations, 60 x 50.
9. Probable mess hall U/C, foundation and part of structure completed, 110 x 50.
10. U/I excavation, 36 x 25.
11. U/I excavation, 30 x 20.
12. Central guidance area U/C with some revetments partially completed.
13. (3) Unoccupied vehicle drive-thru revetments, 55 x 10.

X1D

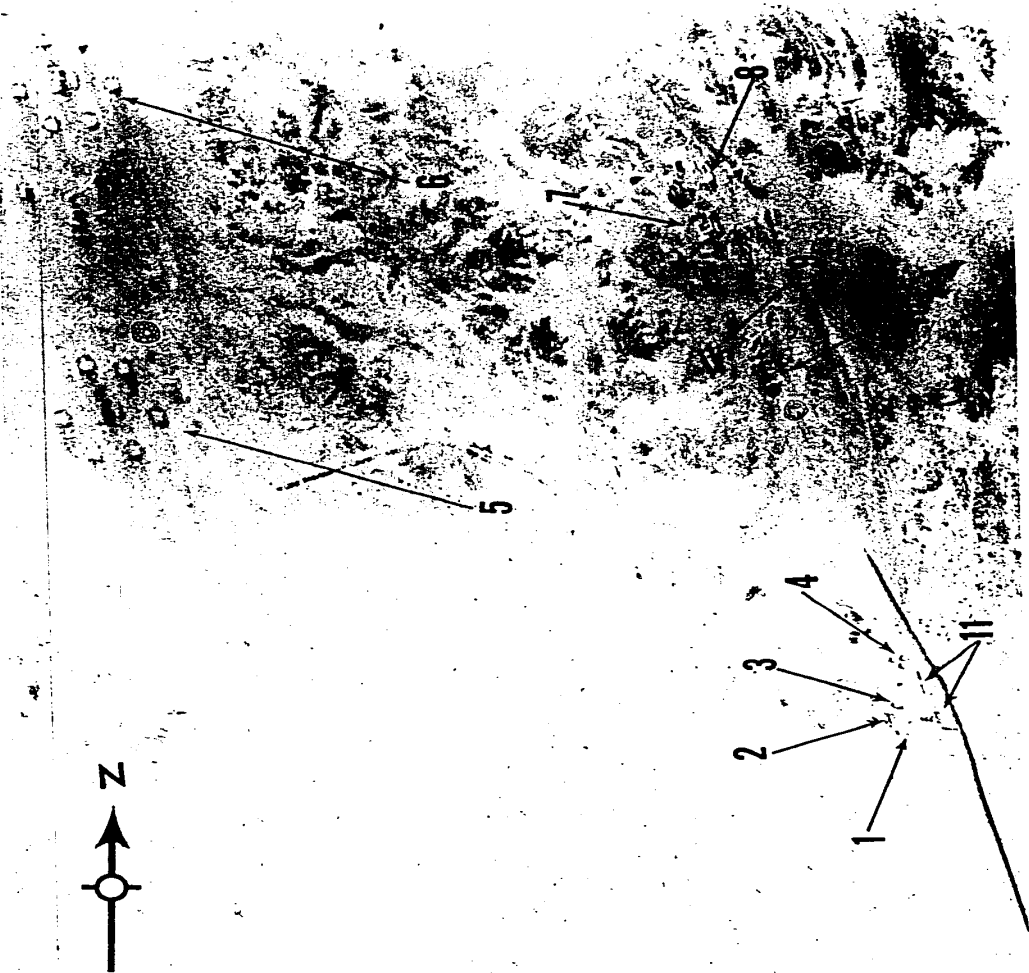
ANNEX F. ASWAN. B22-2.

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TOP SECRET

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ASWAN SAM SITE B33-2 (24°15'00"N 032°46'30"E): 12.8 NM NW of Aswan.

A. Annotations.

1. Probable vehicle shed/workshop building.
2. Probable mess hall.
3. Probable barracks building.
4. Three buildings, possible officers' quarters.
5. Alternate launch site.
6. Alternate launch site.
7. Central guidance area under construction.
8. Six launch revetments under construction.
9. Drive-thru vehicle revetment under construction.
10. Vehicle and missile hold revetments under construction.
11. Three unidentified buildings.

25X1D

TOP SECRET

25X1D

TOP SECRET

TOP SECRET

ASWAN SAM SUPPORT FACILITY TYPE II (24°03'35"N 032°53'10"E): 2 NM SSE of Aswan.

A. Annotations.

1. Probable booster storage building U/C 110 x 35.
2. Excavation, possible warhead storage U/C 60 x 50.
3. Elongated wide T-shaped building, probable prime mover garage and workshop; wing 140 x 60, base 60 x 50.
4. (2) Probable transporter vehicle garages, 200 x 60.
5. (2) Buildings, probable officers' quarters, 55 x 45.
6. Dogleg-shaped excavation, probable NCO/EM barracks, 200 x 50.
7. Excavation, 40 x 20.
8. Excavation, 20 x 15.
9. Excavation, 30 x 30.
10. Elongated T-shaped building, vehicle shed and workshop; wing 100 x 30, roof appears higher; base 100 x 20.
11. West security wall, 395.
12. Construction storage and workshops.
13. Possible chemical lab, in late stage of construction, 60 x 45.
14. U/I building, 25 x 25.
15. Sustainer (second stage) missile storage building U/C, 225 x 80.
16. Probable assembly building U/C, 60 x 50.
17. Excavation, 50 x 50.
18. Waiting circle.

25X1D

ANNEX F. ASWAN. Support Facility.

# DISTRIBUTION LIST

## DoD and JOINT AGENCIES

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DIAXX (AHS)

4

14

## US COMMANDS

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1

1

## DEPARTMENT OF THE ARMY

OACSI

XVIII Corp

1

1

## DEPARTMENT OF THE NAVY

OP922V

FICEUR

USNAVEUR

SIXTH FLEET

1

1

1

1

## DEPARTMENT OF THE AIR FORCE

FTD

ACIC

USAFE

AFSC

TAC

4

1

1

1

1

## OTHER

NPIC

CIA

NSA

1

15

5

## TOTAL PRINTING

62

S 19404

TOP SECRET

TOP SECRET